

ABSTRACT

A selective hopping method for hit avoidance in a frequency hopping spread
5 spectrum communication system utilizing an original hopping sequence, having a
plurality of available channels for receiving signal packet traffic utilizing a plurality
of receiving signal slots are disclosed. The plurality of available channels all are
available for use in frequency hopping. The method comprises the steps of dividing
the plurality of available channels into a plurality of partitions; distributing the
10 available channels in each of the plurality of partitions into a predetermined
distribution; forming a partition sequence by assigning a predetermined number of
channels to a plurality of selected receiving signal slot sets; generating a generated
hopping sequence by partition mapping, wherein said partition mapping is responsive
to said partition sequence; and managing the receiving signal packet traffic, whereby
15 the receiving signal packet traffic is transmitted only in said selected receiving signal
slot sets.